

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 06-011485
 (43)Date of publication of application : 21.01.1994

(51)Int.Cl. G01N 27/62

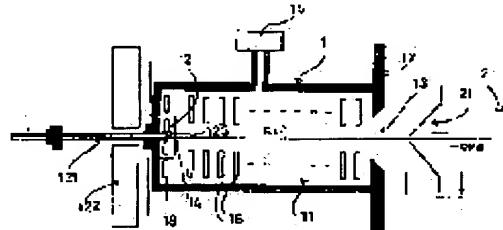
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(54) METHOD AND DEVICE FOR SENSING OF NEUTRAL ACTIVE SEED

(57)Abstract:

PURPOSE: To provide sensibility for neutral active seed with a high sensitivity by adding a neutral active seed to one-valent or two-valent metal ions, and sensing these added ions by mass-spectrometry.

CONSTITUTION: To produce radicals from methane gas, a quartz discharge tube 121 and a microwave cavity 122 are installed as a neutral active seed introducing part 12 in the reacting area 11 of a reaction chamber 1, and radicals are introduced to the reacting area 11 from an inlet 123. A Li⁺ emitter is installed as a metal ion releasing part 14 and emits Li⁺ by doping aluminosilicate with lithium salt and heating it. Lithium ions Li⁺ from this releasing part 14 are allowed to make addition reaction with the radicals and led as added ions RLi⁺ to a mass-spectrometric device 2 from a schemer 21 so as to perform sensing and fixation of the radicals (R). Besides Li, one-valent or two-valent metals such as Ag and Cu and alkali metal such as Na, K, etc.



LEGAL STATUS

[Date of request for examination] 12.02.1998

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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